ANNALES POLONICI MATHEMATICI 115.1 (2015)

Errata to "Multiplicity and the Łojasiewicz exponent"

(Ann. Polon. Math. 73 (2000), 257-267)

by Stanisław Spodzieja (Łódź)

In my article [S], Proposition 1.2 should be replaced by the following.

Proposition 1.2. Under the above notations

$$i(f,0) = \alpha \deg_0 f(\Omega),$$

where α is equal to the degree of the *-covering $f|_D: D \to f(D)$ for some sufficiently small connected neighbourhood $D \subset \Omega$ of the origin which is a connected component of $f^{-1}(f(D))$. Moreover, α does not depend on the choice of Ω .

In the proof of Proposition 1.2 (page 263, line 13 from below), the sentence

"Thus α is the degree of the covering $f|_D$ "

should read

"Let α be the degree of the *-covering $f|_D$ ".

In the proof of Theorem 1.2 (page 264, line 13), the sentence

"Moreover $\alpha = \limsup_{x\to 0} \#(f^{-1}(0)\cap D)$ does not depend on the choice of D and α is the degree of the branched covering $f|_D: D\to f(D)$ "

should be replaced by

"Moreover the degree of the *-covering $f|_D: D \to f(D)$ does not depend on the choice of D."

Acknowledgements. The author thanks Maciej Denkowski for drawing his attention to the error in [S, Proposition 1.2], corrected above.

References

[D] M. P. Denkowski, Multiplicity and the pull-back problem, arXiv:1405.7172 [math.CV].

[S] S. Spodzieja, Multiplicity and the Lojasiewicz exponent, Ann. Polon. Math. 73 (2000), 257–267.

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 $\begin{array}{c} \textit{Received } 1.6.2015 \\ \textit{and in final form } 17.6.2015 \end{array} \tag{3745}$